

|          | <b>U</b>                 | <b>1</b>                 | <b>Document ID</b>   | <b>Issue Date</b> | <b>Pages</b> |
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| <b>1</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>JP 04095287 A</b> | <b>19920327</b>   | <b>10</b>    |

|          | <b>Title</b>               | <b>Current OR</b> |
|----------|----------------------------|-------------------|
| <b>1</b> | <b>OPTICAL DISK MEMORY</b> |                   |

|   | <b>Current XRef</b> | <b>Retrieval Classif</b> | <b>Inventor</b>                | <b>S</b>                            |
|---|---------------------|--------------------------|--------------------------------|-------------------------------------|
| 1 | <b>369/100</b>      |                          | <b>TAKAHASHI, AKIRA et al.</b> | <input checked="" type="checkbox"/> |

|          | <b>C</b>                 | <b>P</b>                 | <b>2</b>                 | <b>3</b>                 | <b>4</b>                 | <b>5</b>                 | <b>Image Doc.<br/>Displayed</b> | <b>PT</b>                |
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| <b>2</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 6631108 B1</b> | <b>20031007</b>   | <b>14</b>    |
| <b>3</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 6532201 B1</b> | <b>20030311</b>   | <b>17</b>    |
| <b>4</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 6480463 B2</b> | <b>20021112</b>   | <b>12</b>    |
| <b>5</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 6434087 B1</b> | <b>20020813</b>   | <b>251</b>   |
| <b>6</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 6418097 B1</b> | <b>20020709</b>   | <b>254</b>   |
| <b>7</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 6330210 B1</b> | <b>20011211</b>   | <b>9</b>     |

|          | <b>Title</b>   | <b>Current OR</b> |
|----------|--|-------------------|
| <b>1</b> | <b>Method for accurate positioning of data marks and spaces on an optical disc</b>   | <b>369/53.34</b>  |
| <b>2</b> | <b>Method for accurate positioning of data marks and spaces on an optical disc</b>   | <b>369/53.35</b>  |
| <b>3</b> | <b>Copy protection for optical discs</b>   | <b>369/53.21</b>  |
| <b>4</b> | <b>Method and device for write protecting compact disk media</b>   | <b>369/290</b>    |
| <b>5</b> | <b>Optical disc system and method for controlling bias coil and light source to process information on a storage medium</b>  | <b>369/13.02</b>  |
| <b>6</b> | <b>Analog to digital converter assembly for normalizing servo error signals and multiplexing reference voltage inputs and digital outputs and improved optical drive system including same</b> | <b>369/44.34</b>  |
| <b>7</b> | <b>Data structure for control information on rewriteable data storage media</b>  | <b>369/30.11</b>  |

|   | <b>Current XRef</b>             | <b>Retrieval Classif</b> | <b>Inventor</b>                   | <b>S</b>                            |
|---|---------------------------------|--------------------------|-----------------------------------|-------------------------------------|
| 1 | <b>369/47.53;<br/>369/53.35</b> |                          | <b>Wilson, Carol J. et al.</b>    | <input checked="" type="checkbox"/> |
| 2 | <b>369/11;<br/>369/30.21</b>    |                          | <b>Hogan, Josh</b>                | <input checked="" type="checkbox"/> |
| 3 | <b>369/53.36</b>                |                          | <b>Hogan, Josh</b>                | <input checked="" type="checkbox"/> |
| 4 |                                 |                          | <b>Hunter, Charles L. et al.</b>  | <input checked="" type="checkbox"/> |
| 5 | <b>369/116;<br/>369/53.26</b>   |                          | <b>Schell, David L. et al.</b>    | <input checked="" type="checkbox"/> |
| 6 | <b>369/44.35</b>                |                          | <b>Schell, David L. et al.</b>    | <input checked="" type="checkbox"/> |
| 7 | <b>369/47.15</b>                |                          | <b>Weirauch, Charles R et al.</b> | <input checked="" type="checkbox"/> |

|          | <b>C</b>                 | <b>P</b>                 | <b>2</b>                 | <b>3</b>                 | <b>4</b>                 | <b>5</b>                 | <b>Image Doc.<br/>Displayed</b> | <b>PT</b>                |
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| <b>3</b> | <input type="checkbox"/> | <b>US 6532201</b>               | <input type="checkbox"/> |
| <b>4</b> | <input type="checkbox"/> | <b>US 6480463</b>               | <input type="checkbox"/> |
| <b>5</b> | <input type="checkbox"/> | <b>US 6434087</b>               | <input type="checkbox"/> |
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| 11 | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 6243336 B1</b> | <b>20010605</b>   | <b>263</b>   |
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| 13 | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 6236625 B1</b> | <b>20010522</b>   | <b>254</b>   |

|    | <b>Title</b>  | <b>Current OR</b> |
|----|---|-------------------|
| 8  | <b>Optical disc system having current monitoring circuit with improved bias coil assembly and controller for laser driver and method for operating same</b>                 | <b>369/13.17</b>  |
| 9  | <b>Optical disc system including current monitoring circuit assembly having controller with improved optics module and laser driver and method for operating same</b>       | <b>369/13.22</b>  |
| 10 | <b>Analog to digital converter and assembly for use in optical drive system to normalize servo error signals and multiplex reference voltage inputs and digital outputs</b> | <b>369/44.34</b>  |
| 11 | <b>Optical disc system having servo motor and servo error detection assembly operated relative to monitored quad sum signal and focus capture method for use in same</b>    | <b>369/44.29</b>  |
| 12 | <b>Device to install compact disk media write protect device</b>  | <b>369/290</b>    |
| 13 | <b>Optical disc system having current monitoring circuit with controller for laser driver and method for operating same</b>   | <b>369/13.22</b>  |

|    | <b>Current XRef</b>                   | <b>Retrieval Classif</b> | <b>Inventor</b>                  | <b>S</b>                            |
|----|---------------------------------------|--------------------------|----------------------------------|-------------------------------------|
| 8  | <b>369/13.26</b>                      |                          | <b>Schell, David L. et al.</b>   | <input checked="" type="checkbox"/> |
| 9  | <b>369/13.11</b>                      |                          | <b>Schell, David L. et al.</b>   | <input checked="" type="checkbox"/> |
| 10 |                                       |                          | <b>Schell, David L. et al.</b>   | <input checked="" type="checkbox"/> |
| 11 | <b>369/44.11;</b><br><b>369/53.28</b> |                          | <b>Schell, David L. et al.</b>   | <input checked="" type="checkbox"/> |
| 12 |                                       |                          | <b>Hunter, Charles L. et al.</b> | <input checked="" type="checkbox"/> |
| 13 | <b>369/116</b>                        |                          | <b>Schell, David L. et al.</b>   | <input checked="" type="checkbox"/> |

|           | <b>C</b>                 | <b>P</b>                 | <b>2</b>                 | <b>3</b>                 | <b>4</b>                 | <b>5</b>                 | <b>Image Doc.<br/>Displayed</b> | <b>PT</b>                |
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| <b>12</b> | <input type="checkbox"/> | <b>US 6236638</b>               | <input type="checkbox"/> |
| <b>13</b> | <input type="checkbox"/> | <b>US 6236625</b>               | <input type="checkbox"/> |

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| <b>15</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 6122232 A</b> | <b>20000919</b>   | <b>254</b>   |
| <b>16</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 6091684 A</b> | <b>20000718</b>   | <b>250</b>   |
| <b>17</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 6087644 A</b> | <b>20000711</b>   | <b>537</b>   |
| <b>18</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 6081501 A</b> | <b>20000627</b>   | <b>12</b>    |
| <b>19</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 6069857 A</b> | <b>20000530</b>   | <b>256</b>   |
| <b>20</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 6058081 A</b> | <b>20000502</b>   | <b>538</b>   |
| <b>21</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 6034364 A</b> | <b>20000307</b>   | <b>254</b>   |

|    | <b>Title</b>  | <b>Current OR</b> |
|----|---|-------------------|
| 14 | <b>Method and apparatus for recording data using multiple buffers</b>   | <b>711/4</b>      |
| 15 | <b>Isolation apparatus for use in disc drive system to mitigate effects of undesired mechanical forces and disc drive system including same</b> | <b>369/44.11</b>  |
| 16 | <b>Optical disc system and method for changing the rotational rate of an information storage medium</b>   | <b>369/53.3</b>   |
| 17 | <b>Focus capture for optical disc system including detection of quad sum signal to close focus</b>  | <b>250/201.5</b>  |
| 18 | <b>Attachment system for write-protect ring for optical disk</b>  | <b>369/290</b>    |
| 19 | <b>Optical disc system having improved circuitry for performing blank sector check on readable disc</b>   | <b>369/53.28</b>  |
| 20 | <b>Optical drive system having servomotor operated relative to maximum quad sum signal</b>  | <b>369/44.27</b>  |
| 21 | <b>Optical disc system including focus capture assembly with focus error signal circuit and method for operating same</b>                       | <b>250/201.5</b>  |

|    | <b>Current XRef</b>   | <b>Retrieval Classif</b> | <b>Inventor</b>                  | <b>S</b>                            |
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| 14 | <b>711/111;<br/>711/112</b>                                   |                          | <b>Inokuchi, Tatsuya et al.</b>  | <input checked="" type="checkbox"/> |
| 15 | <b>369/44.14</b>  |                          | <b>Schell, David L. et al.</b>   | <input checked="" type="checkbox"/> |
| 16 |   |                          | <b>Schell, David L.</b>          | <input checked="" type="checkbox"/> |
| 17 | <b>369/100</b>  |                          | <b>Schell, David L.</b>          | <input checked="" type="checkbox"/> |
| 18 |   |                          | <b>Hunter, Charles L. et al.</b> | <input checked="" type="checkbox"/> |
| 19 | <b>369/44.34;<br/>369/44.35;<br/>369/47.25;<br/>369/53.26</b> |                          | <b>Schell, David L. et al.</b>   | <input checked="" type="checkbox"/> |
| 20 | <b>369/116;<br/>369/44.14;<br/>369/44.25</b>                  |                          | <b>Schell, David L. et al.</b>   | <input checked="" type="checkbox"/> |
| 21 | <b>369/44.27</b>  |                          | <b>Schell, David L.</b>          | <input checked="" type="checkbox"/> |

|           | <b>C</b>                 | <b>P</b>                 | <b>2</b>                 | <b>3</b>                 | <b>4</b>                 | <b>5</b>                 | <b>Image Doc.<br/>Displayed</b> | <b>PT</b>                |
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| <b>18</b> | <input type="checkbox"/> | <b>US 6081501</b>               | <input type="checkbox"/> |
| <b>19</b> | <input type="checkbox"/> | <b>US 6069857</b>               | <input type="checkbox"/> |
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| <b>23</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 5920539 A</b> | <b>19990706</b>   | <b>257</b>   |
| <b>24</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 5878015 A</b> | <b>19990302</b>   | <b>250</b>   |
| <b>25</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 5875158 A</b> | <b>19990223</b>   | <b>531</b>   |
| <b>26</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 5862451 A</b> | <b>19990119</b>   | <b>25</b>    |
| <b>27</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 5828054 A</b> | <b>19981027</b>   | <b>536</b>   |

|           | <b>Title</b>  | <b>Current OR</b> |
|-----------|---|-------------------|
| <b>22</b> | <b>Apparatus for moving a carriage assembly from an initial position to a target position</b>   | <b>369/30.16</b>  |
| <b>23</b> | <b>Apparatus and method for suppression of electromagnetic emissions having a groove on an external surface for passing an electrical conductor</b> | <b>369/244</b>    |
| <b>24</b> | <b>Laser driver for controlling electrical current passed to a laser in an optical disc system</b>  | <b>369/116</b>    |
| <b>25</b> | <b>Servo control system for information storage device</b>  | <b>369/44.34</b>  |
| <b>26</b> | <b>Channel quality management in a cable telephony system</b>   | <b>725/116</b>    |
| <b>27</b> | <b>Focusing method and system for focus capture and focus control in optical disc system including detection of Quad Sum signal to close focus</b>  | <b>250/201.5</b>  |

|    | <b>Current XRef</b>  | <b>Retrieval Classif</b> | <b>Inventor</b>                | <b>S</b>                            |
|----|--|--------------------------|--------------------------------|-------------------------------------|
| 22 | <b>369/44.28</b>   |                          | <b>Getreuer, Kurt W.</b>       | <input checked="" type="checkbox"/> |
| 23 |  |                          | <b>Schell, David L. et al.</b> | <input checked="" type="checkbox"/> |
| 24 |  |                          | <b>Schell, David L. et al.</b> | <input checked="" type="checkbox"/> |
| 25 |  |                          | <b>Schell, David L</b>         | <input checked="" type="checkbox"/> |
| 26 | <b>348/192;<br/>370/458;<br/>455/452.2;<br/>455/513;<br/>455/62;<br/>725/107;<br/>725/126;<br/>725/127</b> |                          | <b>Grau, Alan L. et al.</b>    | <input checked="" type="checkbox"/> |
| 27 | <b>369/100;<br/>369/44.11</b>  |                          | <b>Schell, David L.</b>        | <input checked="" type="checkbox"/> |

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| <b>29</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 5748578 A</b> | <b>19980505</b>   | <b>257</b>   |
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| <b>31</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 5708633 A</b> | <b>19980113</b>   | <b>113</b>   |
| <b>32</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 5706047 A</b> | <b>19980106</b>   | <b>11</b>    |
| <b>33</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 5677899 A</b> | <b>19971014</b>   | <b>537</b>   |

|           | <b>Title</b>  | <b>Current OR</b> |
|-----------|---|-------------------|
| <b>28</b> | <b>Apparatus for controlling an electrical current passed to a writing device in an optical storage system</b>                  | <b>369/116</b>    |
| <b>29</b> | <b>Colpitts type oscillator having reduced ringing and improved optical disc system utilizing same</b>                          | <b>369/44.14</b>  |
| <b>30</b> | <b>Optical disc system having servo motor and servo error detection assembly operated relative to monitored quad sum signal</b> | <b>369/44.27</b>  |
| <b>31</b> | <b>Method and apparatus for manufacturing information storage devices</b>   | <b>369/44.11</b>  |
| <b>32</b> | <b>Storage media for an optical information system having an identification code embedded therein</b>                           | <b>347/262</b>    |
| <b>33</b> | <b>Method for moving carriage assembly from initial position to target position relative to storage medium</b>                  | <b>369/44.28</b>  |

|    | <b>Current XRef</b>   | <b>Retrieval Classif</b> | <b>Inventor</b>                 | <b>S</b>                            |
|----|---|--------------------------|---------------------------------|-------------------------------------|
| 28 | <b>369/53.26</b>  |                          | <b>Schell, David L. et al.</b>  | <input checked="" type="checkbox"/> |
| 29 | <b>331/117R;<br/>331/75;<br/>369/121</b>                    |                          | <b>Schell, David L.</b>         | <input checked="" type="checkbox"/> |
| 30 | <b>369/116;<br/>369/13.02;<br/>369/13.34;<br/>369/44.29</b> |                          | <b>Schell, David L. et al.</b>  | <input checked="" type="checkbox"/> |
| 31 | <b>359/813;<br/>369/44.14</b>                               |                          | <b>Hollen, Zdenek A. et al.</b> | <input checked="" type="checkbox"/> |
| 32 | <b>235/436;<br/>235/462.03;<br/>346/135.1</b>               |                          | <b>Lentz, Joseph et al.</b>     | <input checked="" type="checkbox"/> |
| 33 |   |                          | <b>Getreuer, Kurt W.</b>        | <input checked="" type="checkbox"/> |

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| <b>35</b> | <input type="checkbox"/> | <input type="checkbox"/> | <b>US 5341360 A</b> | <b>19940823</b>   | <b>9</b>     |

|    | <b>Title</b>  | <b>Current OR</b> |
|----|---|-------------------|
| 34 | <b>Temperature sensor and method for optical disk</b>   | <b>428/64.1</b>   |
| 35 | <b>Method and apparatus for calibrating laser write power by averaging upper and lower knees of a calibration profile</b> | <b>369/47.53</b>  |

|    | <b>Current XRef</b>  | <b>Retrieval Classif</b> | <b>Inventor</b>                 | <b>S</b>                            |
|----|--|--------------------------|---------------------------------|-------------------------------------|
| 34 | <b>369/275.1;</b><br><b>369/283;</b><br><b>369/288;</b><br><b>428/64.2;</b><br><b>428/64.4;</b><br><b>428/64.8;</b><br><b>428/913;</b><br><b>430/270.1;</b><br><b>430/270.11;</b><br><b>430/270.14;</b><br><b>430/495.1;</b><br><b>430/945</b> |                          | <b>Bartholomeusz, Brian J.</b>  | <input checked="" type="checkbox"/> |
| 35 | <b>369/116;</b><br><b>369/53.12;</b><br><b>369/53.27;</b><br><b>369/53.35</b>  |                          | <b>Johann, Donald F. et al.</b> | <input checked="" type="checkbox"/> |

|           | <b>C</b>                 | <b>P</b>                 | <b>2</b>                 | <b>3</b>                 | <b>4</b>                 | <b>5</b>                 | <b>Image Doc.<br/>Displayed</b> | <b>PT</b>                |
|-----------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------------|--------------------------|
| <b>34</b> | <input type="checkbox"/> | <b>US 5607739</b>               | <input type="checkbox"/> |
| <b>35</b> | <input type="checkbox"/> | <b>US 5341360</b>               | <input type="checkbox"/> |

| L<br>Number | Hits | Search Text  | DB                 | Time stamp          |
|-------------|------|--|--------------------|---------------------|
| 1           | 3026 | akira near1 takahashi  | USPAT;<br>EPO; JPO | 2003/12/17<br>12:18 |
| 2           | 236  | (akira near1 takahashi) and optical adj<br>(disk or disc)  | USPAT;<br>EPO; JPO | 2003/12/17<br>12:19 |
| 3           | 1    | ((akira near1 takahashi) and optical adj<br>(disk or disc)) and seal   | USPAT;<br>EPO; JPO | 2003/12/17<br>12:20 |
| 4           | 1    | ((akira near1 takahashi) and optical adj<br>(disk or disc)) and (recording near2<br>inhibit\$)                               | USPAT;<br>EPO; JPO | 2003/12/17<br>12:22 |
| 6           | 5    | ((akira near1 takahashi) and optical adj<br>(disk or disc)) and recording) and detach\$                                      | USPAT;<br>EPO; JPO | 2003/12/17<br>12:23 |
| 5           | 212  | ((akira near1 takahashi) and optical adj<br>(disk or disc)) and recording  | USPAT;<br>EPO; JPO | 2003/12/17<br>12:52 |
| 7           | 35   | ((akira near1 takahashi) and optical adj<br>(disk or disc)) and recording) and (tetsuya<br>near1 inui)                       | USPAT;<br>EPO; JPO | 2003/12/17<br>12:53 |
| 8           | 31   | ((akira near1 takahashi) and optical adj<br>(disk or disc)) and recording) and (tetsuya<br>near1 inui)) and (ota nea1 kenji) | USPAT;<br>EPO; JPO | 2003/12/17<br>12:53 |

| <b>L<br/>Number</b> | <b>Hits</b> | <b>Search Text</b>   | <b>DB</b>                        | <b>Time stamp</b>                 |
|---------------------|-------------|--|----------------------------------|-----------------------------------|
| 1                   | 75833       | <b>optical adj (disk or disc)</b>  | <b>USPAT;</b><br><b>EPO; JPO</b> | <b>2003/12/17</b><br><b>13:04</b> |
| 2                   | 230         | <b>(optical adj (disk or disc)) and (power adj calibrat\$)</b>                     | <b>USPAT;</b><br><b>EPO; JPO</b> | <b>2003/12/17</b><br><b>13:05</b> |
| 3                   | 35          | <b>((optical adj (disk or disc)) and (power adj calibrat\$)) and data and ring</b> | <b>USPAT;</b><br><b>EPO; JPO</b> | <b>2003/12/17</b><br><b>13:05</b> |
| 4                   | 1           |  | <b>USPAT</b>                     | <b>2003/12/17</b><br><b>13:11</b> |
| 5                   | 1           |  | <b>USPAT</b>                     | <b>2003/12/17</b><br><b>13:11</b> |
| 6                   | 1           |  | <b>USPAT</b>                     | <b>2003/12/17</b><br><b>13:12</b> |
| 7                   | 1           |  | <b>USPAT</b>                     | <b>2003/12/17</b><br><b>13:12</b> |
| 8                   | 1           |  | <b>USPAT</b>                     | <b>2003/12/17</b><br><b>13:12</b> |

L1 0 S PROGRAM(2W)CALIBRATION(2W)AREA  
L2 42 S POWER(2W)CALIBRATION(2W)AREA  
L3 14 S L2 AND DISK  
L4 39 S L2 AND DISC  
L5 6 S L3 AND DATA AREA  
L6 0 S L5 AND RING  
L7 0 S L4 AND RING  
L8 23 S L4 AND DATA AREA  
L9 4 S L8 AND CALIBRAT?(2W)LASER

=> d 15 1-6

1. 5,721,856, Feb. 24, 1998, Optical **disk** write method; Toshio Takeuchi, 1/1; 369/32, 58 [IMAGE AVAILABLE]
2. 5,701,282, Dec. 23, 1997, Optical **disk** device capable of displaying the whole capacity and the reproduction position on the optical **disk**; Kissei Matsumoto, et al., 369/32, 58 [IMAGE AVAILABLE]
3. 5,617,383, Apr. 1, 1997, Optical **disk** device capable of displaying the whole capacity and the reproduction position on the optical **disk**; Kissei Matsumoto, et al., 369/32, 54, 56 [IMAGE AVAILABLE]
4. 5,561,644, Oct. 1, 1996, Short seeking time optical disc apparatus; Masamichi Kondo, 369/32, 33, 47, 48, 50, 54 [IMAGE AVAILABLE]
5. 5,537,387, Jul. 16, 1996, Information storage **disk** with display data recorded in a lead-in region and an apparatus for recording and/reproducing the disc; Ryo Ando, et al., 369/275.1, 58, 275.3 [IMAGE AVAILABLE]
6. 5,521,900, May 28, 1996, **Disk** having a lead-in region containing display data and an apparatus for recording and/or reproducing the disc; Ryo Ando, et al., 369/275.1, 32, 53, 59, 275.3 [IMAGE AVAILABLE]

=> d 19 1-4

1. 5,818,807, Oct. 6, 1998, Optical medium having a test recording area and method for recording test data thereon; Kazuo Kuroda, et al., 369/116, 58, 275.3 [IMAGE AVAILABLE]
2. 5,799,212, Aug. 25, 1998, Efficient recording medium; Takashi Ohmori, 710/73; 369/13, 14, 32, 48; 707/100; 710/74 [IMAGE AVAILABLE]
3. 5,737,639, Apr. 7, 1998, Method and apparatus for the recording and reproducing of data on a storage medium; Takashi Ohmori, 710/73; 369/13, 124, 275.3; 711/4, 100 [IMAGE AVAILABLE]
4. 5,687,397, Nov. 11, 1997, System for expansion of data storage medium to store user data; Takashi Ohmori, 710/73; 369/13, 14, 32, 48; 707/100; 710/74 [IMAGE AVAILABLE]